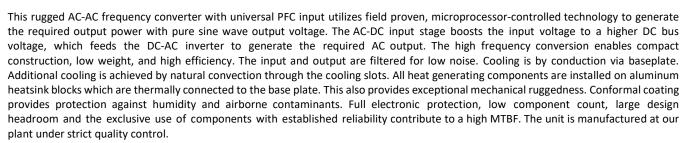
300VA, Industrial Quality AC-AC Frequency Converter with PFC Universal AC input and Sine Wave Output FCP 300-FX Series

- Sinusoidal output voltage
- PFC input with universal range
- Rugged, industrial quality
- Filtered input
- Conduction/convection cooled
- Full electronic protection
- Field-proven design topology



SPECIFICATIONS

Input Voltage

95-264Vac (Universal) 47... 63Hz 400Hz on request Input Current: 4Arms max. Power Factor is better than 0.97 at full load for the entire input range. Meets EN61000-3-2

Input Protection

Inrush current limiting
Varistors
Internal safety fuse
Lower voltage than the specified
minimum input will not damage
the unit

Isolation

2250Vdc input to chassis 4300Vdc input to output 8mm spacing 2250Vdc output to chassis Floating output

Standards

Designed to meet C22.2 No. 107.1 - 01, UL 458 and EN62368-1

EMI

EN55032 Class A with margins Class B EMI as option

Switching Frequency

80kHz ±5kHz PFC input section

Hold Up Time

Min. 10ms at any input for 5% drop in the output voltage

Output Voltage

115Vac/2.6A rms @ 60Hz or 400Hz 300VA continuous or 230Vac/1.3A rms @ 50Hz 300VA continuous. Output is floating, either terminal can be grounded Other outputs are available on request.

Output Wave Form

Sinusoidal

Total Harmonic Distortion Less than 5% at full load

Line/Load Regulation

±2% from no load to full load

Load Crest Factor

2 at 90% load

Output Noise

High frequency ripple is less than 500mVrms (20MHz BW)

Output Overload Protection

Current limiting with short circuit protection

Thermal shutdown with automatic recovery in case of insufficient cooling

Output Overvoltage Protection

140Vac (for 115Vac output) or 280Vac (for 230Vac output) by internal supply voltage limiting

Efficiency

Typically 80% at full load

Operating Temperature Range

 0° C to + 50° C for full specification Extended temperature ranges available

Temperature Drift

0.05% per °C over operating temperature range

Cooling

Conduction to customer heat-sink or chassis and natural convection

Environmental Protection

Basic ruggedizing Conformal coating

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5 - 95% non-condensing

MTBF

120,000 hours at 45°C Demonstrated MTBF is significantly higher

Indicators

None

Control Input

None

Alarm Output

None

Option: output fail alarm (Form C)

Package/Dimensions (W x H x L)

FX: 132 x 62 x 290 mm 5.2" x 2.43" x 11.4" Includes baseplate, excludes terminals Mounting holes are clear.

Weight

2.2 kg (4.9 lbs)

Connections

12 pole barrier type terminal block with 3/8" spacing

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

Terminal Block Pin-out

INPUT	OUTPUT
PH N GND NOT NOT NOT NOT NOT USED USED USED USED	T GND NOT N PH NOT D ≟ USED ∼ ∼ USED

ABSOPULSE power supplies are designed and built to customer requirements. The specifications on this data sheet are generic guidelines only and are subject to change

OEM of industrial and railway quality DC-DC converters, AC-DC power supplies and battery chargers, DC-AC sine-wave inverters, phase and frequency converters, DC-output UPS systems and complete power systems in 19" and 23" racks since 1982. Custom or standard. ABSOPULSE is a BABT-approved Facility.



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